ELSEVIER

Journal of Electroanalytical Chemistry 437 (1997) 263

JOURNAL OF ELECTROANALYTICAL CHEMISTRY

Author index

Aga, H. 111
Aguirre, M.J. 45
Aixill, W.J. 183
Alden, J.A. 183
Aramata, A. 29, 111, 259

Barbero, C. 191
Benzakour, J. 119
Bergel, A. 125
Bolzán, A.E. 199
Bond, A.M. 1
Brunetti, V. 255
Bull, S.D. 209

Campa, C. 93
Cataldi, T.R.I. 93
Cattarin, S. 85
Compton, R.G. 183
Comtat, M. 125
Czerwinski, W.A. 1

Dang, X.-J. 53
Davies, S.G. 209
De Benedetto, G.E. 93
Deng, J. 67
Denuault, G. 37
De Paoli, M.-A. 175
Derja, A. 119
Diao, G. 17

Eklund, K. 99
Elton, D.M. 1

Fabre, B. 245
Fujishima, A. 241

Gibson, T. 125
Gomes, W.P. 77
González-Velasco, J. 135
Gros, P. 125
Guerrero-Lemus, R. 135

Haas, O. 191
Hashimoto, K. 241
Házì, J. 1
Hens, Z. 77
Hisaeda, Y. 111
Horányi, G. 259

Ikeda, K. 241
Iwasita, T. 233

Kaneko, M. 219
Kong, J. 67
Kötz, R. 191
Kress, L. 141

Laitinen, T. 167
Lamperski, S. 225
Lankinen, E. 167
Laviron, E. 61
Li, H.-L. 53
Liess, H.-D. 233
Liu, H. 67
Lvov, S.N. 99

Macdonald, D.D. 99
Marcos, M.L. 135
Marken, F. 209
Marrec, P. 245
Martínez-Duart, J.M. 135
Meunier-Prest, R. 61
Miras, M.C. 191
Mitsumoto, T. 219
Moreno, J.D. 135
Musiani, M. 85

Nagy, G. 37
Neudeck, A. 141
Nie, M.-Y. 53

Páez, M.A. 45
Phillips, C.G. 157
Pohjakallio, M. 167
Prieto, F. 183

Rueda, M. 183

Saario, T. 167
Schiewe, J. 1
Simonet, J. 245
Stone, H.A. 157
Sun, W. 67
Sundholm, G. 167

Talonen, P. 167
Tanaka, H. 29
Teijelo, M.L. 255
Tong, J. 53

Vicente-Beckett, V.A. 1
Villullas, H.M. 255

Waller, G.A. 183
Webster, R.D. 183, 209

Xia, X.H. 233
Xie, G. 67

Yagi, M. 219

Zagal, J.H. 45
Zhang, Z. 17
Zoppi, R.A. 175

ELSEVIER

Journal of Electroanalytical Chemistry 437 (1997) 265–267

JOURNAL OF ELECTROANALYTICAL CHEMISTRY

Subject index

Adsorption
The E-DIM reaction with adsorption of the reactants. Surface vs. volume chemical reaction (Meunier-Prest, Laviron) 61

β-Cyclodextrin
Inclusion of 10-methylphenothiazine and its electrochemically generated cation radical by β-cyclodextrin in water + methanol solvent mixtures (Dang et al.) 53

Blends
Chemical preparation of conductive elastomeric blends: polypyrrole/EPDM. III. Electrochemical characterization (Zoppi, De Paoli) 175

Carbon monoxide
Aminopyridyl cation radical method for bridging between metal complex and glassy carbon: cobalt(II) tetraphenylporphyrin bonded on glassy carbon for enhancement of CO_2 electroreduction (Tanaka, Aramata) 29
The electroreduction of carbon dioxide by macrocyclic cobalt complexes chemically modified on a glassy carbon electrode (Aga et al.) 111

Catalytic process
The hanging meniscus rotating disk. Part 4. Application to catalytic processes (Villullas et al.) 255

Cathodic deposition
Electrodeposition of Se on Ti. Impedance and photoelectrochemical study of passivation phenomena (Cattarin, Musiani) 85

Cation radical carbon electrode modification
Aminopyridyl cation radical method for bridging between metal complex and glassy carbon: cobalt(II) tetraphenylporphyrin bonded on glassy carbon for enhancement of CO_2 electroreduction (Tanaka, Aramata) 29

Channel electrode
Electrode processes with coupled chemistry. Heterogeneous or homogeneous chemical reaction? The reduction of nitromethane in basic aqueous solution (Prieto et al.) 183

Chemically modified glassy carbon
Aminopyridyl cation radical method for bridging between metal complex and glassy carbon: cobalt(II) tetraphenylporphyrin bonded on glassy carbon for enhancement of CO_2 electroreduction (Tanaka, Aramata) 29

Chemical preparation
Chemical preparation of conductive elastomeric blends: polypyrrole/EPDM. III. Electrochemical characterization (Zoppi, De Paoli) 175

Cobalt naphthalocyanine
The electroreduction of carbon dioxide by macrocyclic cobalt complexes chemically modified on a glassy carbon electrode (Aga et al.) 111

Cobalt phthalocyanine
The electroreduction of carbon dioxide by macrocyclic cobalt complexes chemically modified on a glassy carbon electrode (Aga et al.) 111

Cobalt tetraphenylporphyrin
Aminopyridyl cation radical method for bridging between metal complex and glassy carbon: cobalt(II) tetraphenylporphyrin bonded on glassy carbon for enhancement of CO_2 electroreduction (Tanaka, Aramata) 29

Cobalt TPP
The electroreduction of carbon dioxide by macrocyclic cobalt complexes chemically modified on a glassy carbon electrode (Aga et al.) 111

CO_2 electroreduction
Aminopyridyl cation radical method for bridging between metal complex and glassy carbon: cobalt(II) tetraphenylporphyrin bonded on glassy carbon for enhancement of CO_2 electroreduction (Tanaka, Aramata) 29
The electroreduction of carbon dioxide by macrocyclic cobalt complexes chemically modified on a glassy carbon electrode (Aga et al.) 111

Dimerization
The E-DIM reaction with adsorption of the reactants. Surface vs. volume chemical reaction (Meunier-Prest, Laviron) 61

Electrocatalysis
O_2 reduction kinetics on a graphite electrode modified with adsorbed vitamin B_{12} (Zagal et al.) 45

Electrocatalytic reduction
Redox electrochemistry of Keggin type iridium-substituted heteropolytungstates and their electrocatalytic activity toward the reduction of nitrite ion (Sun et al.) 67

Electrochemical characterization
Chemical preparation of conductive elastomeric blends: polypyrrole/EPDM. III. Electrochemical characterization (Zoppi, De Paoli) 175

Electrochemical ESR
Electrode processes with coupled chemistry. Heterogeneous or homogeneous chemical reaction? The reduction of nitromethane in basic aqueous solution (Prieto et al.) 183

Electrochemistry
The method for measurement of heterogeneous electron transfer rate constant and formal standard potential from stationary current–potential curve at oblate hemispheroidal and hemispherical microelectrodes (Diao, Zhang) 17

Electron tunnelling
Electron tunnelling at the Pt(100)|water interface (Nagy, Denuault) 37

Electropolymerization
Electrochemical and spectroscopic properties of new functionalized polythiophenes electroformed from the oxidation of dithienyls linked by long chain polyether spacers (Marrec et al.) 245

Emulsion
Redox processes in microdroplets studied by voltammetry, microscopy, and ESR spectroscopy: oxidation of *N,N,N′,N′*-tetrahexylphenylene diamine deposited on solid electrode surfaces and immersed in aqueous electrolyte solution (Marken et al.) 209

ESR
Redox processes in microdroplets studied by voltammetry, microscopy, and ESR spectroscopy: oxidation of *N,N,N′,N′*-tetra-

hexylphenylene diamine deposited on solid electrode surfaces and immersed in aqueous electrolyte solution (Marken et al.) 209
ESR–UV-visible spectroelectrochemistry
Laminated micro-meshes—a new kind of optically transparent electrode (Neudeck, Kress) 141

Fast scan cyclic voltammetry
Inclusion of 10-methylphenothiazine and its electrochemically generated cation radical by β-cyclodextrin in water + methanol solvent mixtures (Dang et al.) 53
Formation constant
Inclusion of 10-methylphenothiazine and its electrochemically generated cation radical by β-cyclodextrin in water + methanol solvent mixtures (Dang et al.) 53
Fourier transform a.c. voltammetry
Microcomputer-based instrumentation for multi-frequency Fourier transform alternating current (admittance and impedance) voltammetry (Házi et al.) 1

Glassy carbon
The electroreduction of carbon dioxide by macrocyclic cobalt complexes chemically modified on a glassy carbon electrode (Aga et al.) 111

Hanging meniscus rotating disk
The hanging meniscus rotating disk. Part 4. Application to catalytic processes (Villullas et al.) 255
Henry's law constant
The measurement of Henry's constant for hydrogen in high subcritical and supercritical aqueous systems (Eklund et al.) 99
Heterogeneous ECE mechanism
Electrode processes with coupled chemistry. Heterogeneous or homogeneous chemical reaction? The reduction of nitromethane in basic aqueous solution (Prieto et al.) 183
Heterogeneous rate constant
The method for measurement of heterogeneous electron transfer rate constant and formal standard potential from stationary current–potential curve at oblate hemispheroidal and hemispherical microelectrodes (Diao, Zhang) 17
Heteropolytungstates
Redox electrochemistry of Keggin type iridium-substituted heteropolytungstates and their electrocatalytic activity toward the reduction of nitrite ion (Sun et al.) 67
High field conduction
Electrodeposition of Se on Ti. Impedance and photoelectrochemical study of passivation phenomena (Cattarin, Musiani) 85
High temperatures
The measurement of Henry's constant for hydrogen in high subcritical and supercritical aqueous systems (Eklund et al.) 99
Hydrogen fugacity
The measurement of Henry's constant for hydrogen in high subcritical and supercritical aqueous systems (Eklund et al.) 99
Hydrophobic vitamin B_{12}
The electroreduction of carbon dioxide by macrocyclic cobalt complexes chemically modified on a glassy carbon electrode (Aga et al.) 111

Impedance spectroscopy
Electrochemical impedance spectroscopy at semiconductor electrodes: the recombination resistance revisited (Hens, Gomes) 77
Inclusion complex
Inclusion of 10-methylphenothiazine and its electrochemically generated cation radical by β-cyclodextrin in water + methanol solvent mixtures (Dang et al.) 53
Induced anion adsorption
Induced adsorption of phosphate ($H_2PO_4^-$) species by Zn adatoms on platinum (Horányi, Aramata) 259

Iridium
Redox electrochemistry of Keggin type iridium-substituted heteropolytungstates and their electrocatalytic activity toward the reduction of nitrite ion (Sun et al.) 67
Iron
Characterisation of the passive film on iron in phosphate medium by voltammetry and XPS measurements (Benzakour, Derja) 119

Keggin type anions
Redox electrochemistry of Keggin type iridium-substituted heteropolytungstates and their electrocatalytic activity toward the reduction of nitrite ion (Sun et al.) 67

Laminated micro-meshes
Laminated micro-meshes—a new kind of optically transparent electrode (Neudeck, Kress) 141

Macrocyclic cobalt complex
The electroreduction of carbon dioxide by macrocyclic cobalt complexes chemically modified on a glassy carbon electrode (Aga et al.) 111
10-Methylphenothiazine
Inclusion of 10-methylphenothiazine and its electrochemically generated cation radical by β-cyclodextrin in water + methanol solvent mixtures (Dang et al.) 53
Microcomputer-based instrumentation
Microcomputer-based instrumentation for multi-frequency Fourier transform alternating current (admittance and impedance) voltammetry (Házi et al.) 1
Microdroplet
Redox processes in microdroplets studied by voltammetry, microscopy, and ESR spectroscopy: oxidation of *N,N,N′,N′*-tetrahexylphenylene diamine deposited on solid electrode surfaces and immersed in aqueous electrolyte solution (Marken et al.) 209
Microscopy
Redox processes in microdroplets studied by voltammetry, microscopy, and ESR spectroscopy: oxidation of *N,N,N′,N′*-tetrahexylphenylene diamine deposited on solid electrode surfaces and immersed in aqueous electrolyte solution (Marken et al.) 209
Micro-structured electrodes
Laminated micro-meshes—a new kind of optically transparent electrode (Neudeck, Kress) 141
Mott–Schottky
Characterisation of the passive film on iron in phosphate medium by voltammetry and XPS measurements (Benzakour, Derja) 119

Nitrite
Redox electrochemistry of Keggin type iridium-substituted heteropolytungstates and their electrocatalytic activity toward the reduction of nitrite ion (Sun et al.) 67
Nitromethane radical anion
Electrode processes with coupled chemistry. Heterogeneous or homogeneous chemical reaction? The reduction of nitromethane in basic aqueous solution (Prieto et al.) 183
Nitromethane reduction mechanism
Electrode processes with coupled chemistry. Heterogeneous or homogeneous chemical reaction? The reduction of nitromethane in basic aqueous solution (Prieto et al.) 183
Numerical simulation
Electron tunnelling at the Pt(100)|water interface (Nagy, Denuault) 37

Oblate hemispheroidal ultramicroelectrode
The method for measurement of heterogeneous electron transfer rate constant and formal standard potential from stationary current–potential curve at oblate hemispheroidal and hemispherical microelectrodes (Diao, Zhang) 17

Optically transparent electrodes
Laminated micro-meshes—a new kind of optically transparent electrode (Neudeck, Kress) 141
Oxides
Characterisation of the passive film on iron in phosphate medium by voltammetry and XPS measurements (Benzakour, Derja) 119
Oxygen reduction
O_2 reduction kinetics on a graphite electrode modified with adsorbed vitamin B_{12} (Zagal et al.) 45

Passivation
Characterisation of the passive film on iron in phosphate medium by voltammetry and XPS measurements (Benzakour, Derja) 119
Phosphate
Characterisation of the passive film on iron in phosphate medium by voltammetry and XPS measurements (Benzakour, Derja) 119
Induced adsorption of phosphate ($H_2PO_4^-$) species by Zn adatoms on platinum (Horányi, Aramata) 259
Photoconductivity
Electrodeposition of Se on Ti. Impedance and photoelectrochemical study of passivation phenomena (Cattarin, Musiani) 85
Polyethers
Electrochemical and spectroscopic properties of new functionalized polythiophenes electroformed from the oxidation of dithienyls linked by long chain polyether spacers (Marrec et al.) 245
Polypyrrole
Chemical preparation of conductive elastomeric blends: polypyrrole/EPDM. III. Electrochemical characterization (Zoppi, De Paoli) 175
Polythiophenes
Electrochemical and spectroscopic properties of new functionalized polythiophenes electroformed from the oxidation of dithienyls linked by long chain polyether spacers (Marrec et al.) 245
Pt(100)|water interface
Electron tunnelling at the Pt(100)|water interface (Nagy, Denuault) 37

Quasi-reversible reaction
The method for measurement of heterogeneous electron transfer rate constant and formal standard potential from stationary current–potential curve at oblate hemispheroidal and hemispherical microelectrodes (Diao, Zhang) 17

Radiotracer technique
Induced adsorption of phosphate ($H_2PO_4^-$) species by Zn adatoms on platinum (Horányi, Aramata) 259
Recombination resistance
Electrochemical impedance spectroscopy at semiconductor electrodes: the recombination resistance revisited (Hens, Gomes) 77

Redox electrochemistry
Redox electrochemistry of Keggin type iridium-substituted heteropolytungstates and their electrocatalytic activity toward the reduction of nitrite ion (Sun et al.) 67

Semiconductor electrodes
Electrochemical impedance spectroscopy at semiconductor electrodes: the recombination resistance revisited (Hens, Gomes) 77
Steady-state voltammetry
The method for measurement of heterogeneous electron transfer rate constant and formal standard potential from stationary current–potential curve at oblate hemispheroidal and hemispherical microelectrodes (Diao, Zhang) 17
Supercritical water
The measurement of Henry's constant for hydrogen in high subcritical and supercritical aqueous systems (Eklund et al.) 99
Surface reactions
The E-DIM reaction with adsorption of the reactants. Surface vs. volume chemical reaction (Meunier-Prest, Laviron) 61

Thin film
Electrodeposition of Se on Ti. Impedance and photoelectrochemical study of passivation phenomena (Cattarin, Musiani) 85

Upd
Induced adsorption of phosphate ($H_2PO_4^-$) species by Zn adatoms on platinum (Horányi, Aramata) 259

Vitamin B_{12}
O_2 reduction kinetics on a graphite electrode modified with adsorbed vitamin B_{12} (Zagal et al.) 45
Voltammetry
Characterisation of the passive film on iron in phosphate medium by voltammetry and XPS measurements (Benzakour, Derja) 119
Redox processes in microdroplets studied by voltammetry, microscopy, and ESR spectroscopy: oxidation of N,N,N',N'-tetrahexylphenylene diamine deposited on solid electrode surfaces and immersed in aqueous electrolyte solution (Marken et al.) 209

XPS
Characterisation of the passive film on iron in phosphate medium by voltammetry and XPS measurements (Benzakour, Derja) 119

Zn
Induced adsorption of phosphate ($H_2PO_4^-$) species by Zn adatoms on platinum (Horányi, Aramata) 259